## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- (Currently Amended) An insulated flexible electrical circuit suitable for implantation comprising:
  - a first polyparaxylylene layer;
  - an electrical conductor on said first polyparaxylylene layer;
- a second paraxylylene <u>layer</u> that defines at least one aperture exposing  $\frac{1}{1}$  electrical conductor;  $\frac{1}{1}$  end  $\frac{1}{1}$  electrical conductor;  $\frac{1}{1}$  electrical conductor;  $\frac{1}{1}$  end  $\frac{1}{1}$  electrical conductor;  $\frac{1}{1}$  electri

 $\underline{\text{wherein}} \text{ said electrical conductor } \underline{\text{is}} \text{ located between said first polyparaxylylene layer and said second paraxylylene layer.}$ 

- (Original) The electrical circuit of claim 1, wherein said polyparaxylylene is comprised of Parylene.
- (Original) The electrical circuit of claim 1, further comprising at least one polymer layer between said first polyparaxylylene layer and second polyparaxylylene layer.
- (Original) The electrical circuit of claim 3, wherein said polymer is comprised of polyimide.
- 5. (Original) The electrical circuit of claim 1, further comprising at least one polymer layer on said first polyparaxylylene layer or said second polyparaxylylene layer that is not located between said layers..
- (Original) The electrical circuit of claim 5, wherein said polymer is comprised of polyimide.

- (Original) The electrical circuit of claim 1, further comprising a layer of a polymer between said first polyparaxylylene layer and said electrical conductor.
- (Original) The electrical circuit of claim 7, wherein said polymer is comprised of polyimide.
- (Original) The electrical circuit of claim 1 wherein said electrical conductor is suitable for stimulating a nerve.
- 10. (Original) The electrical circuit of claim 1, wherein said electrical conductor is suitable for sensing a signal from a nerve.
- 11. (Original) The electrical circuit of claim 1 wherein said second polyparaxylylene that defines at least one aperture further defines an electrode site suitable for detecting or transmitting signals to living tissue.
- 12. (Original) The electrical circuit of claim 1, wherein said electrical conductor is comprised of a biocompatible material.
- 13. (Original) The electrical circuit of claim 12, wherein said biocompatible material is selected from at least one metal from the group of titanium, platinum, gold or iridium.
- 14. (Original) The electrical circuit of claim 1, wherein said electrical conductor is at least partially coated with a biocompatible material.
- (Original) The electrical circuit of claim 14, wherein said biocompatible material is comprised of titanium nitride.
- 16.-25. (Cancelled).